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Érvényes

Ügyszám: **P0104993**

MSZH e-lajstrom

Bejelentés napja: 1999.10.26

Közzététel napja: 2002.05.28

HU P0104993

Unió elsőbbség: US60106739 - 1998.11.02

PCT bejelentés száma: US9925244

PCT közzététel száma (WO): 0025753

NSZO: **A61K-009/24**

Cím: **Eljárás és eszköz hatóanyagok kontrollált bevitelére**

Angol cím: **METHOD AND DEVICE FOR CONTROLLED DELIVERY OF ACTIVE AGENTS**

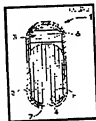
Bejelentő: **ALZA Corporation**, Mountain View, Kalifornia (US)

Feltaláló: **Yam, Noymí**, Sunnyvale, Kalifornia (US)

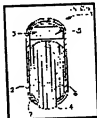
Bhatt, Padmanabh, Saratoga, Kalifornia (US)

Cruz, Evangeline G., Hayward, Kalifornia (US)

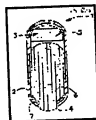
Képviselő: **Szabó Zsolt, DANUBIA Szabadalmi és Védjegy Iroda Kft.**, Budapest (HU)



1



2



3

Kivonat (közzétételi):

A találmány tárgya hatóanyagot tartalmazó dózisforma (1), valamint kompresszált gyógyszerkészítményt, félígateresztő falat (2) és tolófázist (5) tartalmazó dózisformából (1) hatóanyag ürülésének elősegítésére szolgáló eljárás.

A találmány szerinti dózisforma (1) tartalmaz üreget (3) meghatározó, legalább egy félígateresztő tartománnyal és anyagában kialakított vagy kialakítható kiömlőnyílással (4) rendelkező falat (2); az üregben (3) a kiömlőnyílástól (4) távol a fal (2) félígateresztő tartományával közlekedően elrendezett táglásra képes tolófázist (5); az üregben (3) a kiömlőnyílással (4) szomszédosan, a táglásra képes tolófázissal (5) közvetlenül vagy közvetve érintkezően elrendezett hatóanyagfázist (6); továbbá a fal (2) belső felülete és legalább az üregben (3) lévő hatóanyagfázis (6) külső felülete között elrendezett ürülést segítő fázist (7).

A találmány szerinti dózisforma ürülést segítő fázissal (7) bevont kompresszált gyógyszerkészítményt tartalmaz.

A szóban forgó eljárás lényege, hogy a félígateresztő fal (2) és a kompresszált gyógyszerkészítmény között ürülést segítő fázist (7) rendeznek el.

*** ABRA Frame253 ****

*** ABRA Frame254 ****

Intézkedések

4. Nemzetközi bejelentés közzététele (A2) (QJ)

Intézkedés kelté: 2002.03.27 meghirdetése: 2002.05.28 (BB9A Szabadalmi bejelentések közzététele)

9. Értesítés újdonságkutatás elvégzéséről (A3) (RV)

http://pipacsweb.hpo.hu/pia/pia04_03.htm?v=hunpia&q=B%3D%28%22ALZA%20... 2004.05.03.

Intézkedés kelte: 2003.01.27 meghirdetése: 2003.02.28 (EC9A Külön tájékoztatás újdonságkutatásról)

12. Ideiglenes szabadalmi oltalom újra érvénybe helyezése(2) (EI) ref.: 11

Intézkedés kelte: 2003.06.25 árvétele: 2003.06.26 meghirdetése: 2003.07.28 (NF4A Szabadalmi oltalom újra érvénybe helyezése)

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HU 00104993

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Derwent Title: Device for controlled delivery of high drug-loading compositions includes a flow-promoting layer between the semi-permeable layer and the drug layer

Original Title: WO0025753A2; CONTROLLED DELIVERY OF ACTIVE AGENTS

Assignee: BHATT P Individual
CRUZ E Individual
YAM N Individual
ALZA CORP Standard company
Other publications from ALZA CORP (ALZA)...

Inventor: BHATT P; CRUZ E; CRUZ E G; YAM N;
Accession/Update: 2000-365362 / 200380

IPC Code: A61K 0/00 ; A61K 9/20 ; A61K 9/22 ; A61K 9/24 ; A61K 9/44 ; A61K 31/496 ; A61K 47/02 ; A61K 47/10 ; A61K 47/12 ; A61K 47/14 ; A61K 47/32 ; A61K 47/34 ; A61K 47/38 ; A61K 47/42 ; A61P 25/24 ;

Derwent Classes: A96; B07; A11; A25;
Manual Codes: A12-Y01 (Medicines, pharmaceuticals) , B04-C02A (Cellulose and derivatives) , B04-C03C (Polymers) , B04-M02 (Animal protein/polypeptide (No sequence)) , B05-A01B (Group 1a, 2a, 3a excluding K, B, Re) , B07-D03 (Pyridine) , B07-D05 (Piperidine) , B12-M03 (Emulsion) , B12-M10A (Sustained release) , B14-J01A1 (Antidepressant)

Derwent Abstract: (WO0025753A) Novelty - Use of a flow-promoting layer in a controlled delivery device to minimize drug retention is new.

Detailed Description - Controlled delivery dosage form (I) comprises:

- (a) an outer wall which is semipermeable (or partially semipermeable) having an exit orifice formed or formable and which encloses a cavity;
 - (b) an expandable layer located in the cavity distal to the exit orifice;
 - (c) a drug layer located in the cavity adjacent to the exit orifice and in direct or indirect contact with the expandable layer;
 - (d) a flow-promoting layer interposed between the inner surface of the outer wall and at least the external surface of the drug layer.
- ACTIVITY - None given.

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MECHANISM OF ACTION - None given.

Use - (i) are particularly useful for controlled release of drugs in a high-loading oral dosage form for e.g. once-a-day administration. Incorporation of a flow-promoting layer enhances the smooth delivery of the drug by providing less friction at the interface between the drug composition and the semipermeable wall.

Advantage - The flow-promoting layer provides enhanced delivery of the drug composition reducing the amount of residual drug remaining undispensed in the device. Consequently the convention of adding extra drug to compensate for that undispensed is unnecessary, resulting in dosage forms which are physically smaller and more easy to swallow.

Dwg 0/0

Family:

POF Patent

☒ WO0025753A*

Pub. Date Derwent Update Pages Language IPC Code

2000-05-11 200031 56 English A61K 9/24

(N) AE AL AM AU AZ BA BG BR BY CA CH CN CU CZ DE DK DM EE ES FI GB GD GE GH GM HU IJ IL IN JP
KE KG KM KN KU KW KY LA LB LC LI LU LV MA MD MG MK MN MW MX NO NZ PL PT RU SD SE SG SK SL TJ TM TR TT TZ
UG US VN YU ZA ZW (R) AT BE CH CY DE DK EA ES FI FR GB GH GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW

Des. States:

Local apps.: WO1999US0025244 Filed: 1999-10-26 (99WO-US25244)

☒ NZ0511465A = 2003-10-31 200380 English A61K 9/24

Local apps.: Based on WO00025753 (WO 200025753)

NZ1999000511465 Filed: 1999-10-26 (99NZ-0511465)

WO1999US0025244 Filed: 1999-10-26 (99WO-US25244)

JP2002528486W = 2002-09-03 200273 English A61K 9/22

Local apps.: Based on WO00025753 (WO 200025753)

WO1999US0025244 Filed: 1999-10-26 (99WO-US25244)

JP2000000579195 Filed: 1999-10-26 (2000JP-0579195)

☒ ZA0103524A = 2002-07-31 200271 English A61K 0/00

Local apps.: ZA2001/000003524 Filed: 2001-05-02 (2001ZA-0003524)

☒ HU0104993A2 = 2002-05-28 200249 English A61K 9/24

Local apps.: Based on WO00025753 (WO 200025753)

HU2001/000004993 Filed: 1999-10-26 (2001HU-0004993)

WO1999US0025244 Filed: 1999-10-26 (99WO-US25244)

☒ US20020048600A1 = 2002-04-25 200233 English A61K 9/20

Local apps.: US2001/000001116 Filed: 2001-11-27 (2001US-0001116)

Cont of US1999000430837 Filed: 1999-11-01 (99US-0430837)

Provisional US1998000106739P Filed: 1998-11-02 (98US-106739P)

☒ US6368626 = 2002-04-09 200227 English A61K 9/22

Local apps.: US1999000430837 Filed: 1999-11-01 (99US-0430837)

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|---|------------|--------|---------|-----------|
| Provisional US1998000106739P Filed:1998-11-02 (98US-106739P) | | | | |
| MX1004371A1 = | 2002-03-01 | 200362 | Spanish | A61K 9/24 |
| Local appls.: Based on WO00025753 (WO 200025753) | | | | |
| MX200100004371 Filed:2001-05-02 (2001MX-0004371) | | | | |
| WO1999US0025244 Filed:1999-10-26 (99WO-US25244) | | | | |
| <input checked="" type="checkbox"/> CN1325301A = | | | | |
| 2001-12-05 200223 | | | | |
| Local appls.: CN1999000812981 Filed:1999-10-26 (99CN-0812981) | | | | |
| <input checked="" type="checkbox"/> EP1126827A2 = | | | | |
| 2001-08-29 200150 | | | | |
| Des. States: (R) AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE | | | | |
| Local appls.: Based on WO00025753 (WO 200025753) | | | | |
| WO1999US0025244 Filed:1999-10-26 (99WO-US25244) | | | | |
| EP1999000971310 Filed:1999-10-26 (99EP-0971310) | | | | |
| <input checked="" type="checkbox"/> KR1075676A = | | | | |
| 2001-08-09 200211 | | | | |
| Local appls.: KR2001000705529 Filed:2001-05-02 (2001KR-0705529) | | | | |
| <input checked="" type="checkbox"/> NO102168A = | | | | |
| 2001-06-13 200141 | | | | |
| Local appls.: NO2001000002168 Filed:2001-05-02 (2001NO-0002168) | | | | |
| WO1999US0025244 Filed:1999-10-26 (99WO-US25244) | | | | |
| <input checked="" type="checkbox"/> AU0012385A = | | | | |
| 2000-05-22 200040 | | | | |
| Local appls.: Based on WO00025753 (WO 200025753) | | | | |
| AU2000000012385 Filed:1999-10-26 (2000AU-0012385) | | | | |

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Ⓢ INPADOC

Legal Status:

Ⓢ Claims:

[Hide claims]:

1. A dosage form for an active agent comprising: a wall defining a cavity, the wall having an exit orifice formed or formable therein and at least a portion of the wall being semipermeable; an expandable layer located within the cavity remote from the exit orifice and in fluid communication with the semipermeable portion of the wall; a drug layer located within the cavity adjacent the exit orifice and in direct or indirect contacting relationship with the expandable layer; and a flow-promoting layer interposed between the inner surface of the wall and at least the external surface of the drug layer located within the cavity.
2. The dosage form of Claim 1 wherein the drug layer contains at least 40% by weight of drug based on the weight of the drug layer.
3. The dosage form of Claim 1 wherein the expandable layer comprises an osmotic agent.
4. The dosage form of Claim 3 wherein the flow-promoting layer comprises a material selected from hydrogels, gelatin, polyethylene oxides of less than 1 00,000 MW, hydroxyalkylcelluloses having number average molecular weights of between 9,500 and 1,250 000, and hydroxyalkyl amy1celluloses having number average molecular weights of between 80,000 to 850,000, and mixtures thereof.

5. The dosage form of Claim 1 wherein the flow-promoting layer is adapted to facilitate release of at least 80% of the drug in the drug layer to the environment of use.
6. An article of manufacture comprising a compressed drug composition overcoated with a flow-promoting layer.
7. The article of Claim 6 comprising an expandable layer in direct or indirect contact with the drug composition and forming a bilayer core with the drug composition, the bilayer core being overcoated with the flowpromoting layer.
8. The article of Claim 7 wherein the flow-promoting layer comprises a material selected from hydrogels, gelatin, polyethylene oxides of less than 1 00,000 MW, hydroxyalkyl celluloses having number average molecular weights of between 9,500 and 1,250,000, and hydroxyalkyl alkylcelluloses having number average molecular weights of between 80,000 to 850,000, and mixtures thereof.
9. The article of Claim 7 wherein the flow-promoting layer 1 5 comprises an hydroxypropyl cellulose.
10. A method of facilitating the release of a drug from a dosage form comprising a compressed drug composition, a semipermeable wall and a push layer, the method comprising interposing a flow promoting layer between the semipermeable wall and the compressed drug composition.
11. The method of Claim 10 wherein the flow promoting layer comprises a coating on the compressed drug composition prepared from a hydroxyalkyl cellulose and a lower alcohol. ¹

Priority Number:

| Application Number | Filed | Original Title |
|--------------------|------------|--------------------------------------|
| US20070000011116 | 2001-11-27 | CONTROLLED DELIVERY OF ACTIVE AGENTS |
| US1999000430837 | 1999-11-01 | CONTROLLED DELIVERY OF ACTIVE AGENTS |
| US1998000706739P | 1998-11-02 | |

Chemical

Indexing Codes:

Ring Index

Numbers:

Extended

Polymer Index:

Specific

Compound

Numbers:

Registry

Numbers:

Unlinked

Registry Numbers:

Related

Accessions:

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03[M1]:2044U

05[M2]:2020U

2020U 2044U

| Accession Number | Type | Derwent Update | Derwent Title |
|------------------|------|----------------|---------------|
| C2000-110260 | C | | |
| 1 item found | | | |

⌕ Title Terms:

DEVICE CONTROL DELIVER HIGH DRUG LOAD COMPOSITION FLOW PROMOTE LAYER SEMI PERMEABLE LAYER
DRUG LAYER

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